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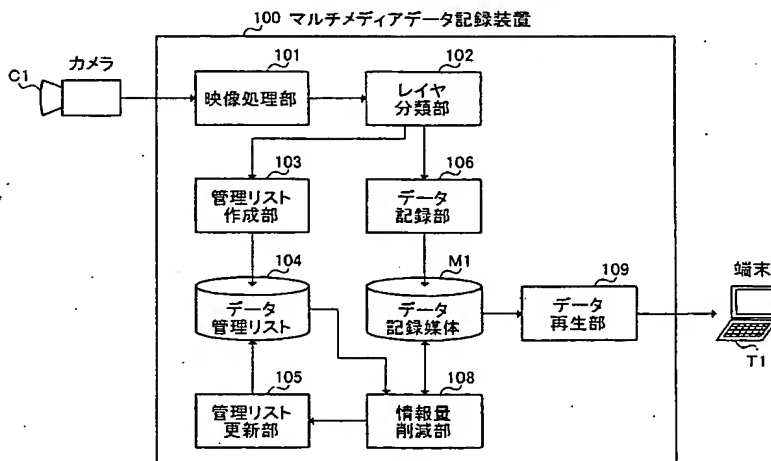
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- (51) 国際特許分類: H04N 5/91, 7/18 (71) 出願人 (米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) [JP/JP]; 〒5718501 大阪府門真市大字門真 1 0 0 6 番地 Osaka (JP).
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- (26) 国際公開の言語: 日本語 (75) 発明者/出願人 (米国についてのみ): 松川 隆行 (MATSUKAWA, Takayuki). 由雄 宏明 (YOSHIO, Hiroaki). 河合 富美 (KAWAI, Fumi).
- (30) 優先権データ:
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2003 年 10 月 20 日 (20.10.2003) JP (74) 代理人: 鷺田 公一 (WASHIDA, Kimihito); 〒2060034 東京都多摩市鶴牧 1 丁目 2 4-1 新都市センタービル 5 階 Tokyo (JP).
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(54) Title: MULTIMEDIA DATA RECORDING APPARATUS, MONITOR SYSTEM, AND MULTIMEDIA DATA RECORDING METHOD

(54) 発明の名称: マルチメディアデータ記録装置、モニタシステム、およびマルチメディアデータ記録方法



100...MULTIMEDIA DATA RECORDING APPARATUS
C1...CAMERA
101...IMAGE PROCESSING PART
102...LAYER CLASSIFYING PART
103...MANAGEMENT LIST PRODUCING PART
106...DATA RECORDING PART
104...DATA MANAGEMENT LIST
M1...DATA RECORDING MEDIUM
109...DATA REPRODUCING PART
T1...TERMINAL
105...MANAGEMENT LIST UPDATING PART
108...INFORMATION AMOUNT REDUCTION PART

(57) Abstract: A multimedia data recording apparatus capable of performing a long duration recording of a large amount of data in accordance with the importance degree of the data by use of simple structure and processings without imposing any excessive load on the system. In the apparatus, a layer classifying part (102) classifies the data of images, which are picked up by a monitor camera (C1) and processed and outputted by an image processing part (101), into a plurality of layers according to the respective importance degrees in the unit of frame. A data recording part (106) assigns a file to the classified data for each of the layers and records the data into a data recording medium (M1). An information amount reduction part (108) removes the frame belonging to the bottom one of the multiple layers when it is determined that the available space of the data recording medium (M1) goes down below a threshold value.

(57) 要約: 大容量の記録データを、システムに多大な負荷をかけずに簡単な構成および処理により、データの重要度に応じて長時間記録することができるマルチメディアデータ記録装置を開示する。この装置において、レイヤ分類部 (102) は、監視カメラ

(C1) で撮像され、映像処理部 (101) を介し入力された映像

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(81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

添付公開書類:

- 国際調査報告書
- 補正書

(84) 指定国 (表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY,

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データを、重要度に応じてフレーム単位で複数のレイヤに分類する。データ記録部(106)は、分類されたデータをレイヤ毎にファイルを割り当ててデータ記録媒体(M1)に記録する。情報量削減部(108)は、データ記録媒体(M1)の空き容量が閾値以下となったことを検知した場合、複数のレイヤのうち最下層のレイヤに属すフレームを削除する。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015533

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H04N5/91, 7/18		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H04N5/76-5/956, 7/18		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT.		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-69298 A (Secom Co., Ltd.), 09 March, 1999 (09.03.99), Full text; Fig. 6 (Family: none)	1-11
X	JP 2002-44609 A (Matsushita Electric Industrial Co., Ltd.), 08 February, 2002 (08.02.02), Par. Nos. [0009], [0030]; Fig. 3 & US 2002/15582 A1	1-11
X	JP 2002-93119 A (Aiwa Co., Ltd.), 29 March, 2002 (29.03.02), Par. No. [0048]; Fig. 5 (Family: none)	1-11
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 12 January, 2005 (12.01.05)		Date of mailing of the international search report 25 January, 2005 (25.01.05)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-268022 A (Sony Corp.), 28 September, 2001 (28.09.01), Par. No. [0078]; Fig. 10 & EP 1134976 A2 & US 2002/16185 A1	1-11